ROHDE & SCHWARZ

Broadcasting Division

ETH View

Software for ETH TV Analyzers

Users Manual

Table of Contents

| Title	Page

ii

Chapter 1
Installing ETH View

Installing the ETH View Software

The software offers you simple mouse-controlled tools to work with your TV Analyzer.

The setup program installs the software on PC's running Windows To install the software, insert the CD ROM into the CD ROM drive and choose **Setup.exe**.

The setup program starts up and prompts you for information to complete the installation.

Running the ETH View Software
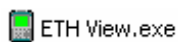
ETH View.exe — Choose from **Start – All Programs – ETH View – ETH View** to run the ETH View software.
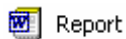
Report — Choose from **Start - Programs – ETH View – Report** to create a test report in Word.

Connecting the TV Analyzer

The program communicates with your TV analyzer via USB or Ethernet (LAN).

During startup (except for the first time), the program automatically tries to make a connection with the instrument according to the last valid connection.

If automatic connection is not successful, the dialog box shown below appears, allowing you to make a connection.
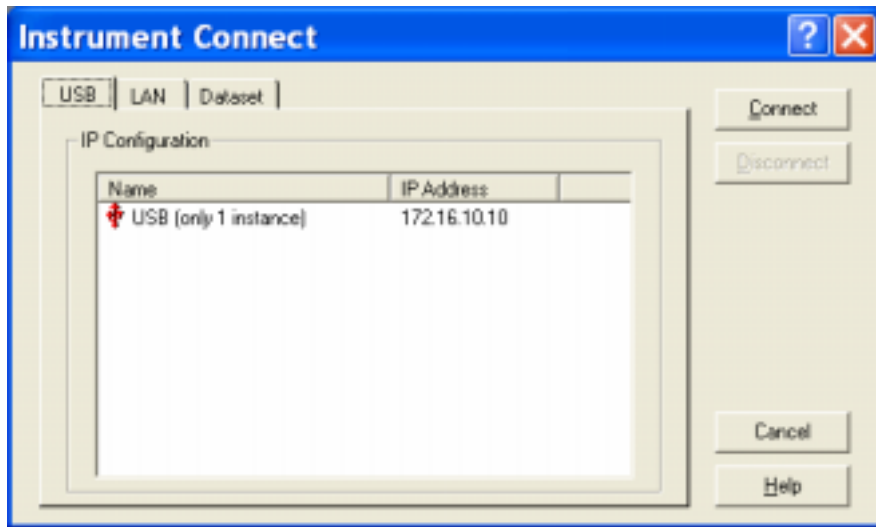
1 Select **LAN** as instrument connection to the PC.

The Dataset tab is used to view datasets on the PC.
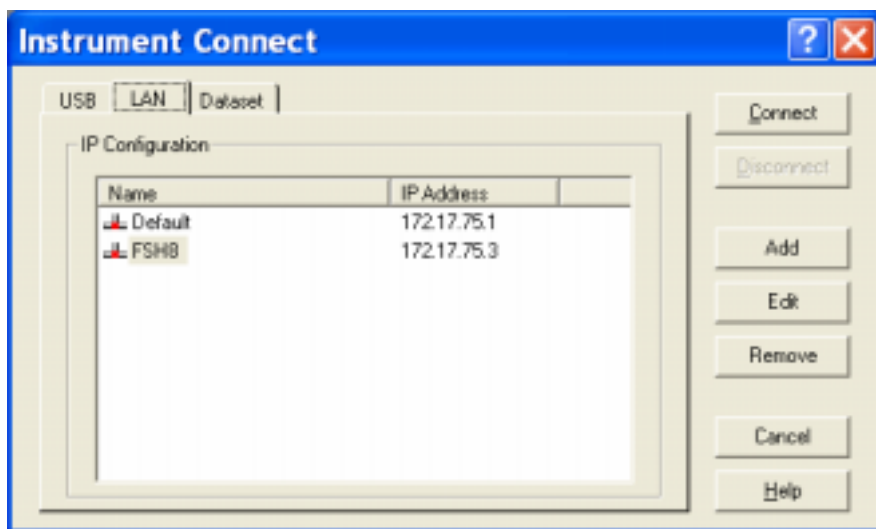
2 • Click **Add** to define and add a new LAN configuration to the list.

• Click **Edit** to edit a LAN configuration from the list.

• Click **Remove** to delete a LAN configuration from the list.

3 Click **Connect** to establish a connection with the instrument.

Direct Connection via LAN

- Connect the R&S ETH directly to the PC with the LAN cable supplied. The R&S ETH LAN interface is situated on the left side underneath a protective cap.

DHCP is switched on by default on the R&S ETH. DCHP on the R&S ETH must be switched off for a direct connection.

- Press the SETUP key.
- Press the INSTRUMENT SETUP softkey.

The R&S ETH opens a list with the general settings.

- Select the DHCP MODE menu item below the heading LAN PORT with the rotary knob or the cursor keys (∧ or ∨) and confirm with ENTER.

- A selection list opens. Select OFF with the rotary knob or the cursor keys (∧ or ∨) and confirm with the ENTER key. DHCP is now deactivated.

LAN Port	
MAC Address	00-11-43-48-72-91
DHCP	off
IP Address	172.76.68.24
Subnet Mask	255.255.255.0

To make the connection, the IP address of the PC used and that of the R&S ETH must be identical, apart from the digits following the last dot. This means that the digits following the last dot must be different.
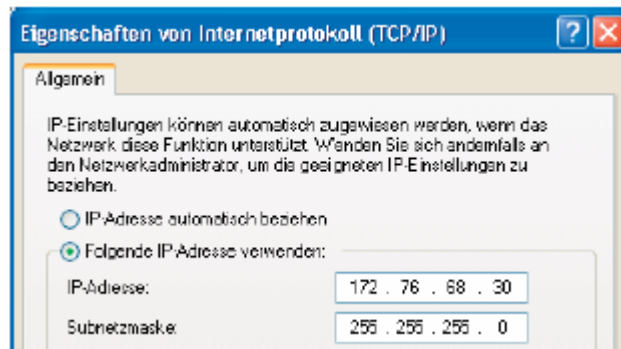
Example:

PC IP address: 172.76.68.30
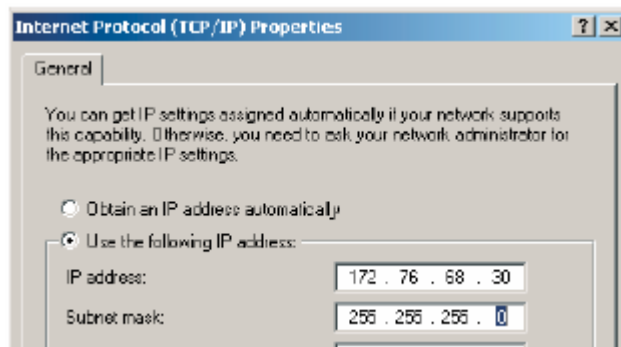R&S ETH IP address: 172.76.68.24

LAN Port	
MAC Address	00-11-43-48-72-91
DHCP	off
IP Adress	172.76.68.24
Subnet Mask	255.255.255.0

- Select the IP ADDRESS menu item from the list under the heading LAN PORT with the rotary knob or the cursor keys (∧ or ∨) and confirm with ENTER. An input field opens.

- Enter the IP address of the PC (e.g. 172.76.68.24) with the numeric keys and confirm with ENTER.

The PC's and the R&S ETH's subnet mask must also match in order to make a connection.

- Select the SUBNET MASK menu item from the list below the heading LAN PORT with the rotary knob or the cursor keys (∧ or ∨) and confirm with ENTER. An input field opens.

- Enter the subnet mask used on the PC, e.g. 255.255.255.0 with the numeric keys and confirm with ENTER.

R&S ETH View software configuration:

- Start the R&S ETH View software on the PC.

- Select the **LAN** tab in the open input dialog.

- Then create a new network connection with **Add**.
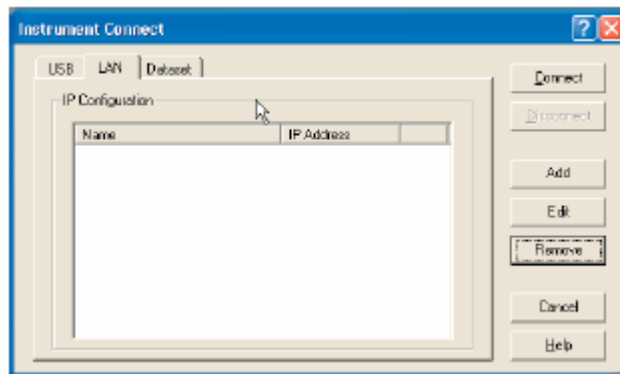
- Enter the name for the new network connection in the open window, e.g. R&S ETH .

- Enter the IP address set for the R&S ETH in the IP Address input field, in this case 172.76.68.24, and confirm with **OK**.
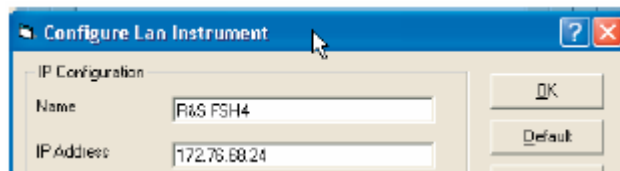
The connection is now configured and appears in the IP CONFIGURATION window.
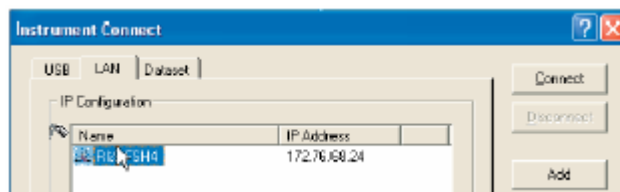
- Select the new connection named "R&S ETH" and make the connection to the R&S ETH with **Connect**.

Connection via an Existing LAN Network

The R&S ETH's IP address can be automatically drawn from the DHCP server, or a fixed address can be defined manually. With manual allocation, a fixed IP address and subnet mask must be assigned to the R&S ETH as described in the chapter on direct LAN connection. The R&S ETH View software must then be configured as described with the assigned IP address.

Please contact your IT system manager to obtain a free IP address.

In networks with a DHCP server, the Dynamic Host Configuration Protocol (DHCP) permits automatic allocation of the network configuration to the R&S ETH connected via LAN cable. For this purpose, DHCP must be active on the R&S ETH.

DHCP is switched on by default on the R&S ETH. If the setting has been altered, proceed as follows:

- Press the SETUP key.
- Press the INSTRUMENT SETUP softkey.

The R&S ETH opens a list with the general settings.

LAN Port	
MAC Address	00-11-43-48-72-91
DHCP	on
IP Adress	10.114.10.83
Subnet Mask	255.255.255.0

- Select the DHCP MODE menu item below the heading LAN PORT with the rotary knob or the cursor keys (∧ or ∨) and confirm with ENTER.
- A selection list opens. Select ON with the rotary knob or the cursor keys (∧ or ∨) and confirm with the ENTER key. DHCP is now active.

The R&S ETH is now allocated an IP address and the subnet mask by the DHCP server. This can take several seconds. The values then appear under IP ADDRESS and SUBNET MASK under the LAN PORT heading.

In this example:

> IP address: 10.114.10.83
> Subnet mask: 255.255.255.0

The R&S ETH View software must then be configured as described in the chapter on direct LAN connection.

The IP address and subnet mask assigned by the DHCP server must then be used to create a new LAN connection.

Direct Connection via USB

- Switch on the R&S ETH.

- Connect the R&S ETH directly to the PC with the USB cable supplied. The R&S ETH USB interface is situated on the left side under a protective cap.

When connected for the first time, the wizard for finding new hardware appears on the PC screen.

- Select "Install the software automatically (Recommended)" and confirm by clicking **Next**.

The R&S ETH View software must be installed on the PC. Only then can the hardware wizard find the necessary drivers for the USB connection.

After a few seconds, the wizard reports that the software for the new hardware has been installed.
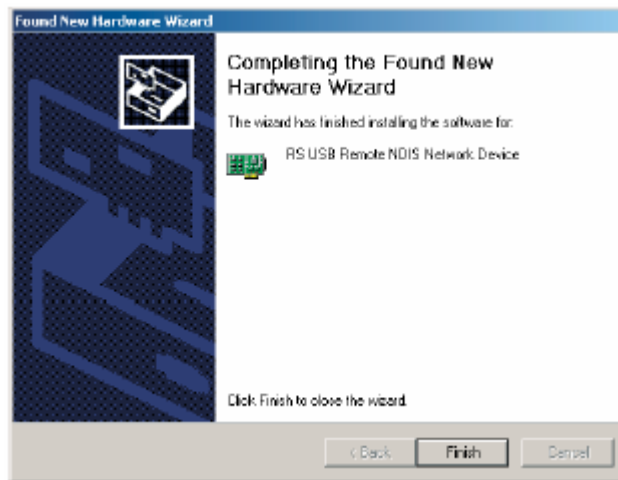
- Finish the installation by clicking **Finish**.

A new LAN connection appears in the network connections overview with the device name "RS USB Remote NDIS Network Device".

The PC must be assigned a fixed IP address and a subnet mask manually for this LAN connection.

The R&S ETH uses a fixed IP address for the USB connection: 172.16.10.10. The subnet mask is 255.255.0.0.

The subnet mask must match for both the PC and the R&S ETH. The last two numbers in the PC's IP address must be different from the last two numbers in the above IP address.

For example, the PC's IP address could look like this: 172.16.66.5. The first two numbers are fixed.
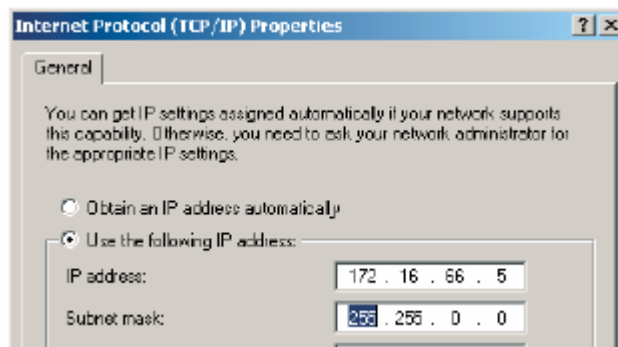
- Start the R&S ETH View software on the PC.

- Select the **USB** tab in the open input window.

- The USB connection is preconfigured and cannot be modified. The USB connection is made via a predefined IP address.
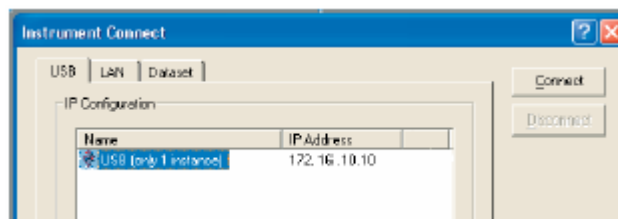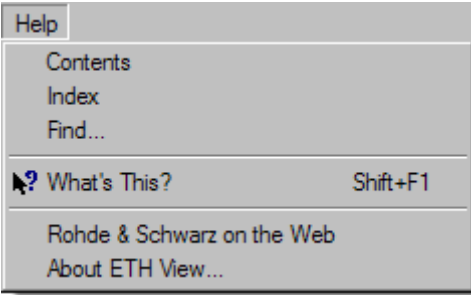
- Select the R&S ETH connection and make the connection to the R&S ETH by clicking **Connect**.

Chapter 2
Using ETH View

Using Online Help

The ETH View software offers you access to online help by using the **F1** key, a **Help** button, "**What's This?**" help, or the **Help** menu:

F1 or **Shift**+F1	Press to get online help for the topic that has the focus.
? or ▸?	Click, move the mouse pointer on a topic, and click again to get "What's This" help.
Help	Click to get help.
Help Contents Index Find... ▸? What's This? Shift+F1 Rohde & Schwarz on the Web About ETH View...	For example: Click **Help** - **Contents** and select a topic from the contents list, for example to get help on toolbar buttons and menu commands.

Note

To show help items on a help page, do one of the following:
- *move the mouse pointer (changes to 🖑 over a help item);*
- *press **Tab** (changes the* background *of a help item).*

Data Types

Instrument Screens

Type: bitmap graphics from the instrument screen (pixel-format)

Use: to create documents and reports

Screen	➔	Screen Window
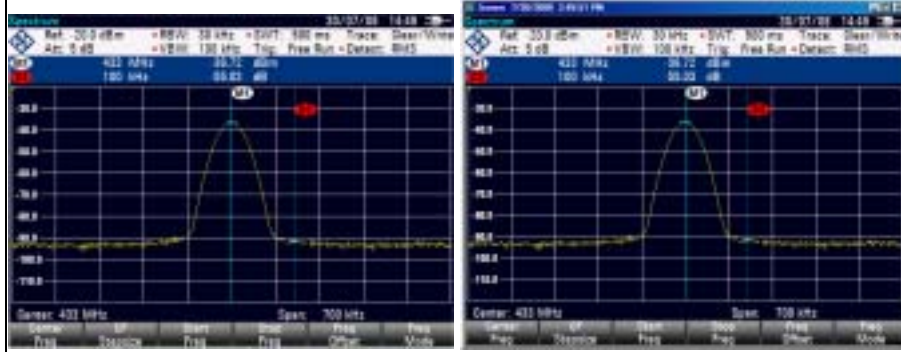
Refer to Documenting Screens.

Sweeps

Type: numerical trace points to generate graphs

Use: to analyze by means of zooming or export to spreadsheets

---

Sweep picture ➜ **Sweep Window**
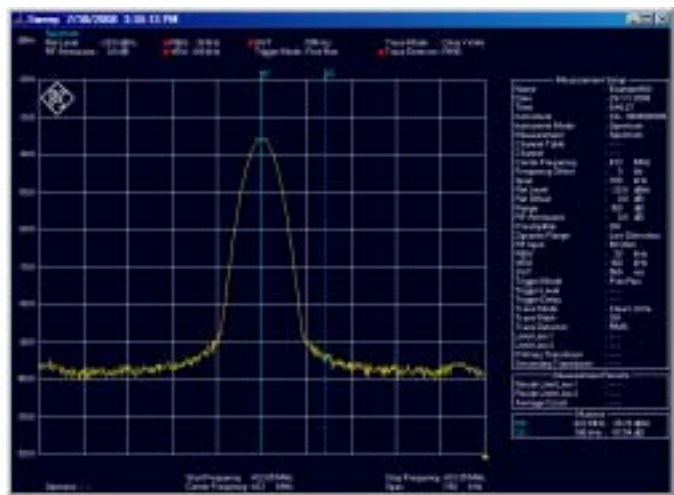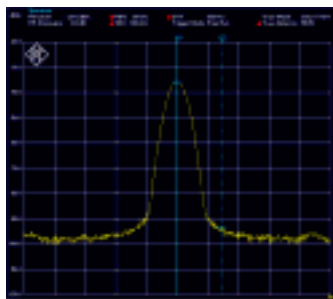
Refer to Analyzing Sweeps.

Instrument Datasets

Type:	sweep and setup data
Use:	to retrieve and send back instrument datasets

Dataset	**←→**	**Dataset file(s)**

Refer to Transferring Instrument Datasets.

Cable Models

Type: cable model data

Use: to retrieve, edit, and send back instrument cable models

| Cable model | ←→ | Cable model file(s) |
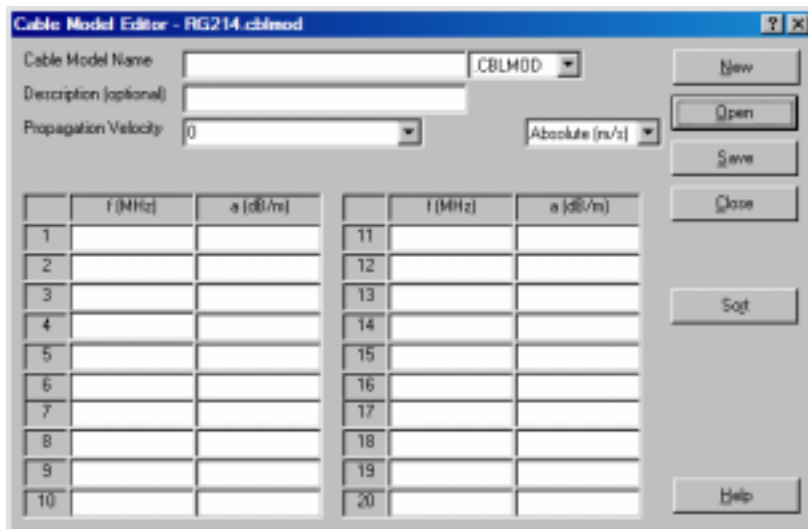
Refer to Using Cable Models for Distance To Fault.

Limit Lines

Type: limit line data

Use: to retrieve, edit, and send back instrument limit lines

Limit line	←→	Limit line file(s)

Refer to Using Limit Lines for pass/fail testing.

ETH View Users Manual

Transducer Factors

Type: transducer factor data

Use: to retrieve, edit, and send back instrument transducer factors

Transducer factor ⬅➡ **Transducer factor file(s)**

Refer to Using Transducer Factors to correct sweep points.

Channel Tables

Type: channel table data

Use: to retrieve, edit, and send back instrument channel tables

Channel Table ⬅➡ **Channel Table file(s)**
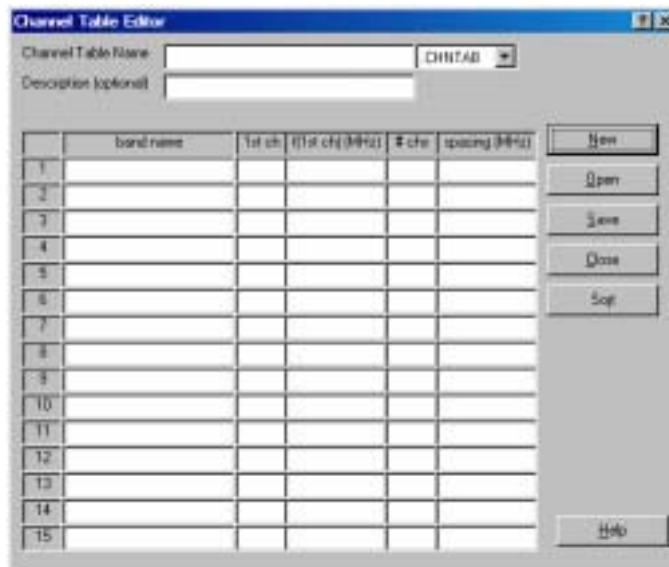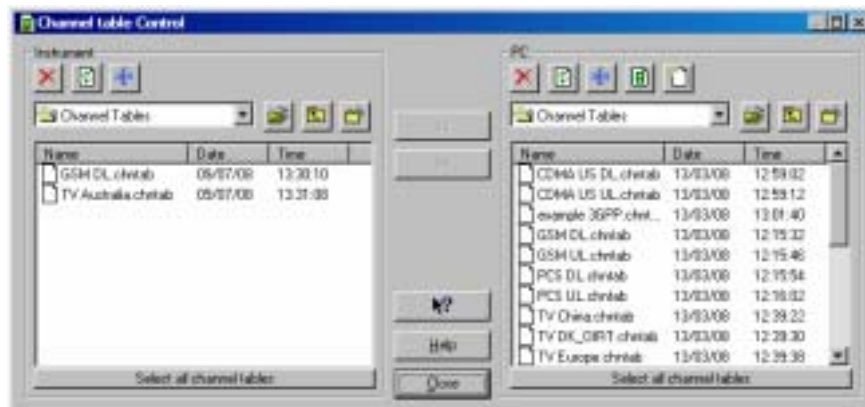
Refer to Using Channel Tables to define channel numbers for certain frequency bands that you can select in the TV analyzer.

Standards

Type: standards data

Use: to retrieve, edit, and send measurement standards

Standards   ←→   **Standard file(s)**

Refer to Using Standards to select or define measurement standards, e.g. for telecommunication, that you can send to the TV analyzer.

Limit Tables

Type: limit table data

Use: to retrieve, edit, and send back TV limit tables

| Limit table | ⬅➡ | Limit table file(s) |

Refer to Using Limit Lines for using TV limit tables.

Profiles

Type: profile data

Use: to retrieve, edit, and send back DVB profiles

Profile   ←→   Profile file(s)
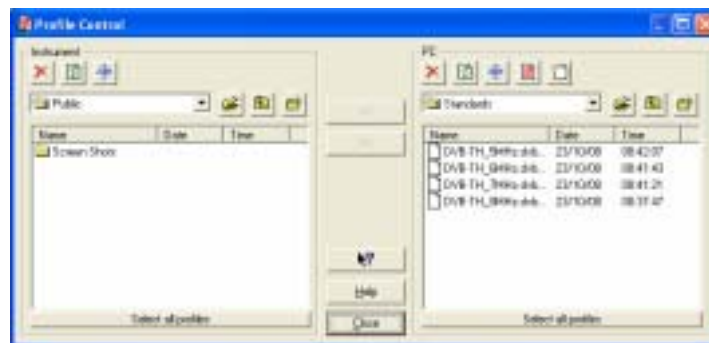
Refer to Using Limit Lines for using DVB profiles.

ETH View Users Manual   20

Enter Operator Name

1 Select Options - Operator. As a result, the Operator dialog box appears.

2 Tye a name as operator. This name will appear on sweep windows for example.

Synchronize Instrument with PC

1   Click to synchronize date and time of the connected instrument with the date and time of the PC.

Creating a Test Report

1 [icon] Report   Choose from **Start - Programs – ETH View** to create a test report.
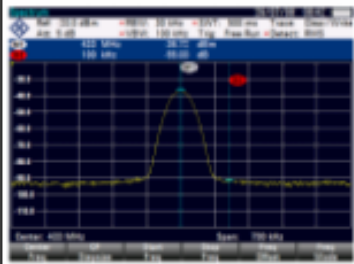
As a result, Word is started and the required macros are loaded. Select **Enable Macros** when requested.

2   Click predefined fields (**Company, Contact**, **...**) and type your text.

3 [icon] Click to insert the active instrument screen in black & white [icon] or color [icon]. As a result, ETH View is started, a connection is made, and the active screen is pasted into the document at the position of the mouse cursor.

4   Click the **Description** field and type your text.

5 Click to select and insert dataset pictures into your document.
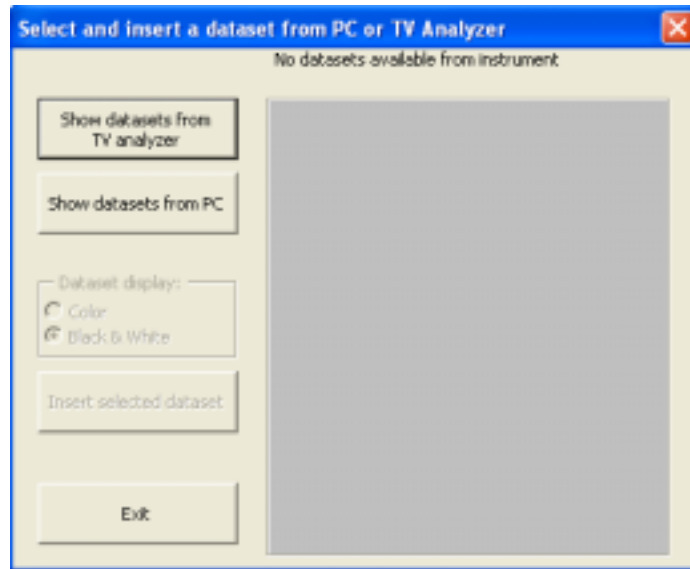
6.1 | Click to show the list of dataset names stored in the connected TV analyzer and select a dataset from the list.

6.2 | Click to select and show the dataset files stored in a PC folder (directory).

7 Click ⊙ Color or ⊙ Black & White to insert datasets in color or Black & White respectively.

8 | Click to paste the selected dataset into the document at the position of the mouse cursor. Notice that you can also double click a dataset name from the list.

You can paste other dataset pictures by clicking the mouse cursor at new positions in your document.

9 | Click to close the dialog box.

10 Click to print your test report.

11 Click to save your test report.

ETH View Users Manual

Documenting Screens

Displaying an Instrument Screen on the PC

1 📷 Click to display the **active** TV Analyzer screen in a screen window.

Each TV Analyzer screen appears in a separate screen window.To change the window to your preference:

2 Select **View – View Measurement Setup** to view or hide the measurement settings data.

3 Select **View – View Description** and type a description in the text box below the window (max. 10 lines).

4 Select **Options - Description** to change the number of characters on a description line.

5 Select **Options - Colors** to display a window in colors or black & white (greyscale).

Inserting Screens into a Document

1 Click on the screen window you want to insert.

Tip

To avoid losing resolution because of copying to the clipboard, choose **Window – Default Size**.

2 Click to copy the window to the clipboard.

3 Switch to a wordprocessor.

4 Open or create a document and place the cursor where you want to insert the window.

5 Select **Edit - Paste** to insert the screen window into the document.

**6** Click to save your document.

Note

In the same way, you can insert sweep windows into a document.

Analyzing Sweeps

You can read numerical trace samples from the TV Analyzer and display these samples in a sweep window. Up to four sweeps can be displayed in a window.

Displaying Sweeps on the PC

1 [icon] Click to display the active sweep and/or measurement from the instrument.
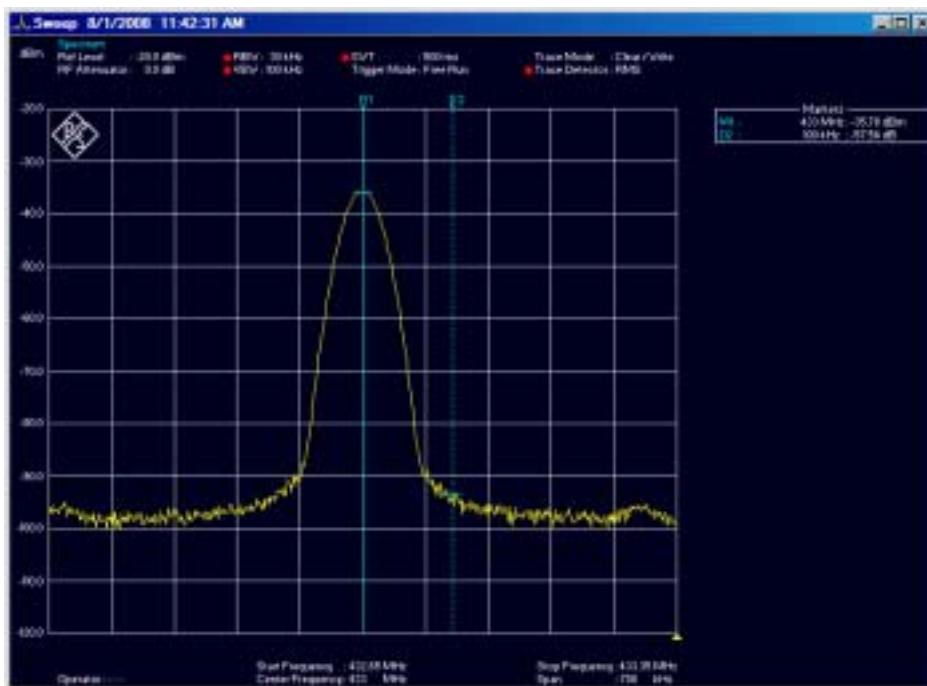
To change a sweep window to your preference, various view and select features are available. However, not all features are available in all instrument modes.

2 Select **View – View Description** and type a description in the text box below the window (max. 10 lines).

3 Select **View - View Measurement Setup** to show or hide the measurement settings data.

4 Select **View – View Measurement Results** to show or hide the measurement result data.

5 Select **View – View Display Line** to show or hide the horizontal display line from the instrument.

6 Choose **Select - Markers** to select 1 up to 6 vertical markers. As a result, the Select Markers dialog box pops up allowing you to select or deselect the markers and X/Y-values you want to view in the sweep window.

7 Select **Options - Colors** to change window colors.

8 Select **Options - Description** to change the number of characters on a description line.

9 To change window titles, select **Options - Titles**.
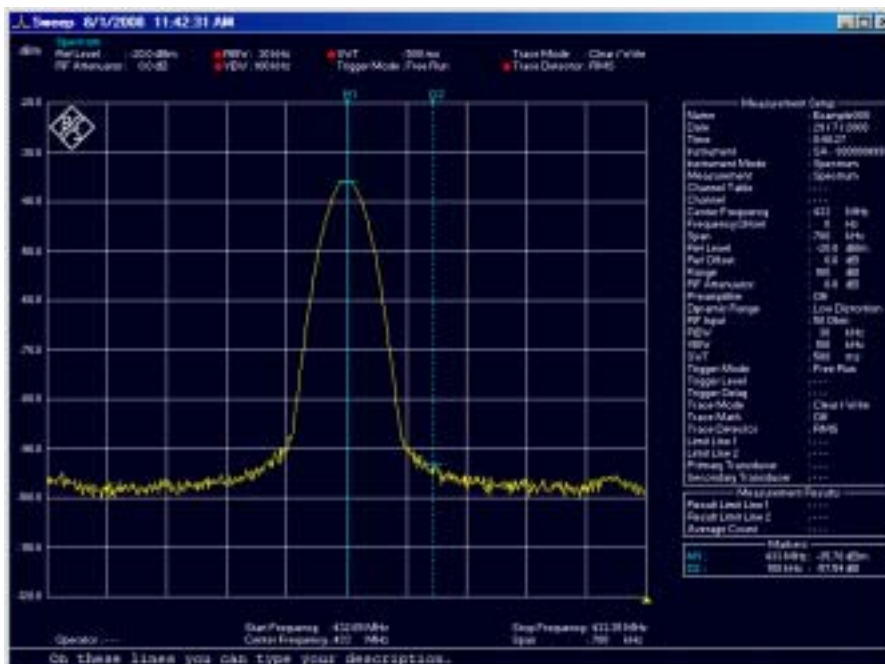
For information about the data in the Measurement Setup (or Measurement Results) block, select **Help** – **Index** – **Measurement Setup** (or **Measurement Results**), or refer to the settings on the TV analyzer (see operation manual).

Tip

To change Sweep Settings, place the mouse cursor on the Trace or Status block and double click the left mouse button.

10 Click to read sweeps repeatedly. A dialog box appears allowing you to select options for multiple sweep transfers.
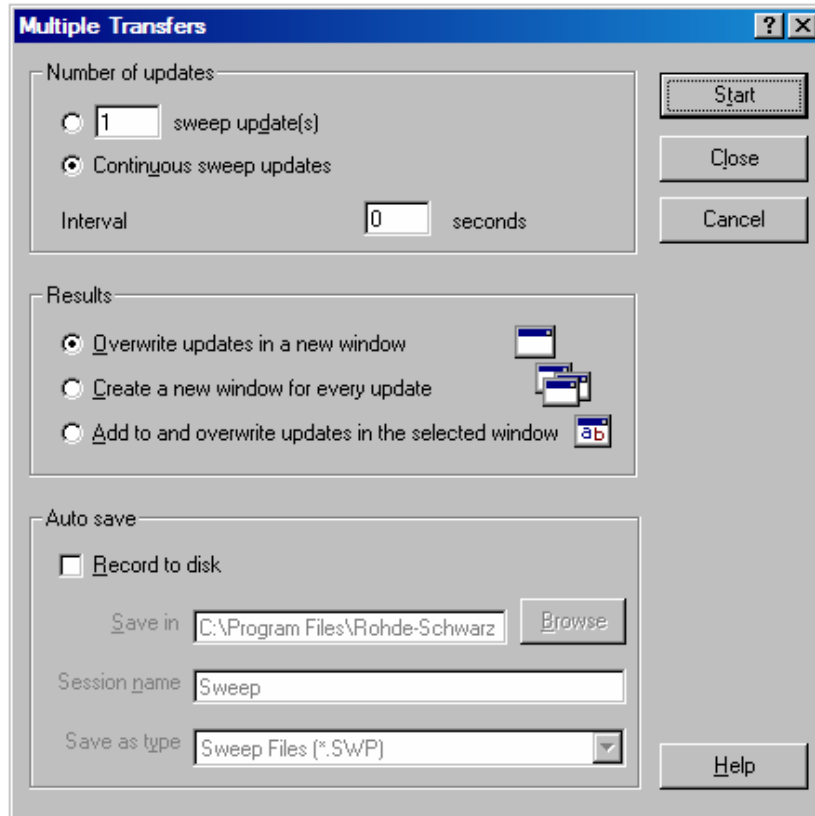

11 Choose **Continuous sweep updates** to read sweeps continuously.

12 Choose **Add to and overwrite updates in the selected window** to add a second sweep in the window, which will be overwritten continuously by the newly read sweep.

13 Enable **Record to disk** to automatically save read sweeps onto disk. Click [?] to get further What's This help.

14 Start Click to read and display sweeps repeatedly.

15 Click or press **Esc** to stop reading new sweeps.

Changing Sweep Settings

Select **Options – Sweep Settings**, or double click in the trace or status block. As a result, a dialog box pops up allowing you to:

- change the unit and range of the sweep in the active window;

- view the memory trace (if available from the instrument memory);

- view the upper/lower limit line from the instrument or select a new upper/lower limit line from file.
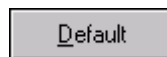
Default	Sets the range, unit, and grid of the active sweep to default values.
	It does not reset limit line selections.

For more information, click the ⏹ help.

Zooming In and Out on a Trace

Drag with the mouse in the graph to select and zoom in on the part of the trace you want to enlarge or use the following buttons:

🔍	Click to zoom in on a trace.
	Use the scroll bars to select the part you want to view.
🔍	Click to zoom out on a trace (undoes one 'zoom in' step).
🔍	Click to reset zooming (undoes all 'zoom in' steps).

Copying Sweeps between Sweep Windows

To be able to do this you need at least two sweep windows (source and destination).

1   If there are multiple sweeps in the sweep window, click on the sweep you want to copy (to make it the active sweep).

2   Select **Edit - Copy Sweep** to copy the sweep to the other sweep window. If there are multiple sweep windows, the Windows Selection dialog box pops up first.

You can also use the Windows 'drag & drop' feature:

- position the mouse pointer on the sweep in the source window and keep the left mouse button pressed;
- move (drag) the mouse pointer (and underlying sweep) into the destination window;
- release the left mouse button (drop).

Dropping a sweep on the ETH View background creates a new sweep window.

Exporting Sweep Data to Other Programs

1   Click on the sweep you want to insert.

2   Select **Edit - Copy Data** to copy the sweep data to the clipboard.

3   Switch to a spreadsheet program (e.g. Excel) or wordprocessor (e.g. Word).

4   Open or create a worksheet or a document and place the cursor where you want to insert the data.

5   Select **Edit - Paste** to insert the data from the clipboard.

6   Click to save your spreadsheet or document.

You can also use the Windows 'drag & drop' feature:

- start up a spreadsheet or wordprocessor program;
- drag the desired sweep onto a worksheet or document, or onto its program button on the Windows taskbar;
- drop the sweep data on the worksheet or document.

Transferring Instrument Datasets

1 [icon] Click to transfer datasets to and from the instrument. As a result, the Dataset Control dialog box pops up.
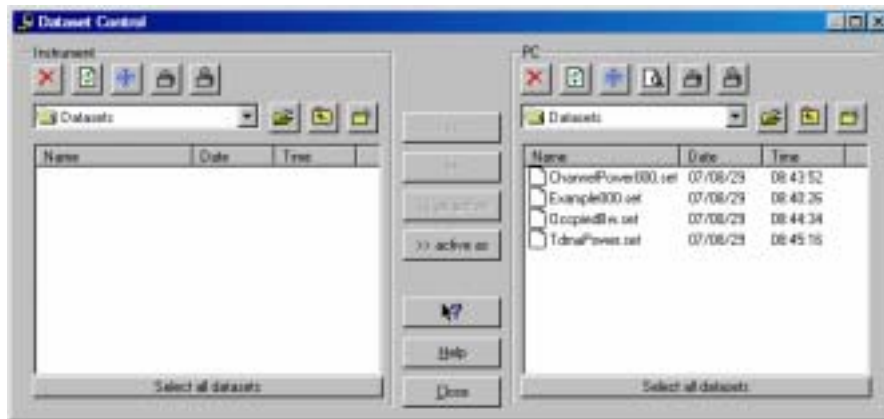
Saving Datasets to the PC

First, save a dataset in the instrument (default DATASET000.set) by pressing the buttons **Save**, **F1**, and **F1** on the instrument.

2 [icon] Click to refresh the **Instrument** list. As a result, the datasets appear in the instrument frame list.
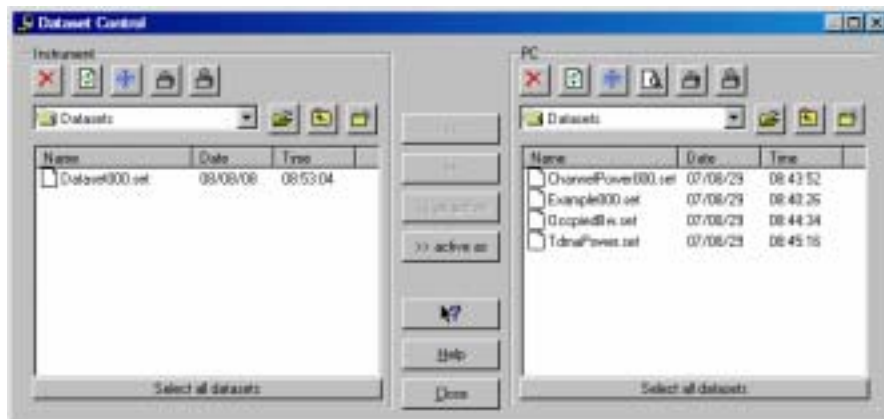
3   Select *DATASET000.set* from the **Instrument** list.

| Select all datasets | Click to select all datasets from the list. |

4   Select a subdirectory from the **PC** frame where to store the dataset file(s).

Notice that the default directory is **\ETHView\Datasets**.

5   [⟫]   Click to transfer the selected dataset to the PC.
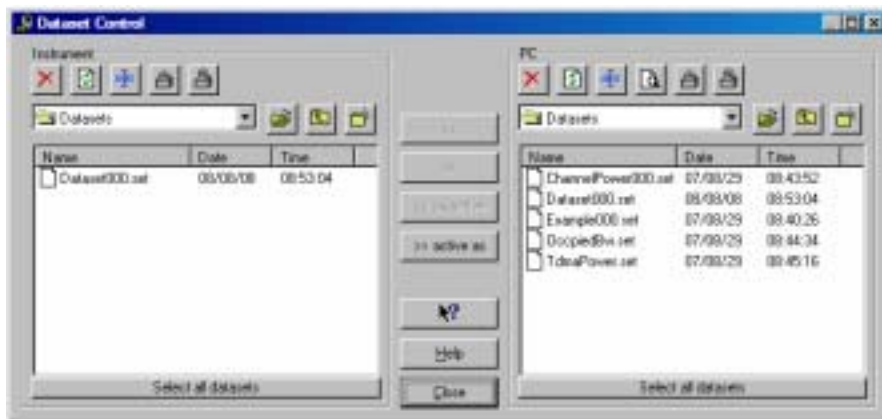
6   Select *DATASET000.set* from the **PC** list.

7   [🔍]   Click to preview the selected dataset in a window or double click on the name.

Click [✖] to close the preview window.

Uploading Datasets to the Instrument

8   [a|e]   Click and rename the selected dataset into DATASET001.set for example.

9   [🔒]   Click to lock the selected dataset; see lock sign in front of the name.

Note

A locked dataset cannot be deleted in the instrument.
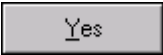
10   [⟪]   Click to transfer the selected dataset to the

ETH View Users Manual   32

instrument.

11 Select *DATASET000.set*, for example, from the **Instrument** list. Press the **Ctrl** button to select more files.

12 Click to delete the selected dataset. As a result, a dialog box pops up for confirmation. Press the **Shift** button to select more files.

13 Click to confirm the delete action.

14 Click to close the Dataset Control dialog box.

Using Cable Models for Distance To Fault

Transferring cable models to the instrument is possible only if DTF is available in the instrument.

1 [icon] Click to transfer cable models to and from the instrument. As a result, the Cable Model Control dialog box pops up.
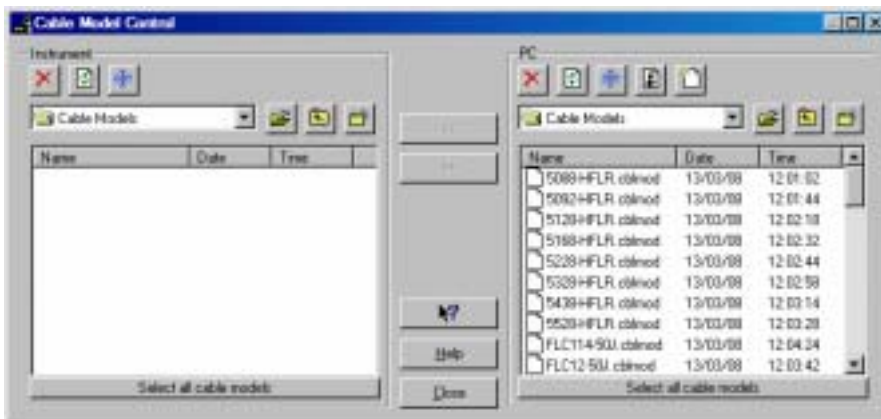
Uploading Cable Models to the Instrument
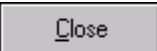
2 Select *5088-HFLR.cblmod* from the **PC** list, for example. Press the **Ctrl** button to select more files.

3 [<<] Click to transfer the selected cable model to the instrument.

Editing Cable Models

4   Select *5088-HFLR.cblmod* from the **PC** list.

5   [icon]   Click to edit the selected cable model file. As a result, the Cable Model Editor dialog box pops up.

6   Change the cable model characteristics to your preference.

7   [Save]   Click to save the changes. As a result, a dialog box pops up allowing you to browse for a different folder, if you want to.

Notice that the default folder is:

      \ETHView\Cable Models

8   [OK]   Click to save to file.

9   [Close]   Click to close the Cable Model Editor dialog box.

Tips

[icon]   Click to create a new cable model file.

[icon]   Click to delete the selected cable model file. Press the **Shift** button to select more files.

[Select all cable models]   Click to select all cable models from the list.

[>>]   Click to transfer the selected cable models from the instrument to the PC folder.

10   [Close]   Click to close the Cable Model Control dialog box.

Using Limit Lines

1 Click to transfer limit lines to and from the instrument. As a result, the Limit Lines Control dialog box pops up.
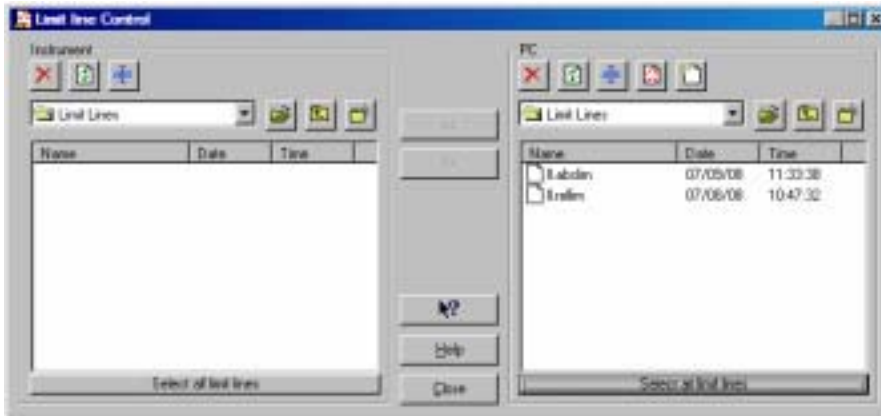
Uploading Limit Lines to the Instrument

2 Select *ll.abslim* from the **PC** list, for example. Press the **Ctrl** button to select more files.

3 `<<` Click to transfer the selected limit line to the instrument.
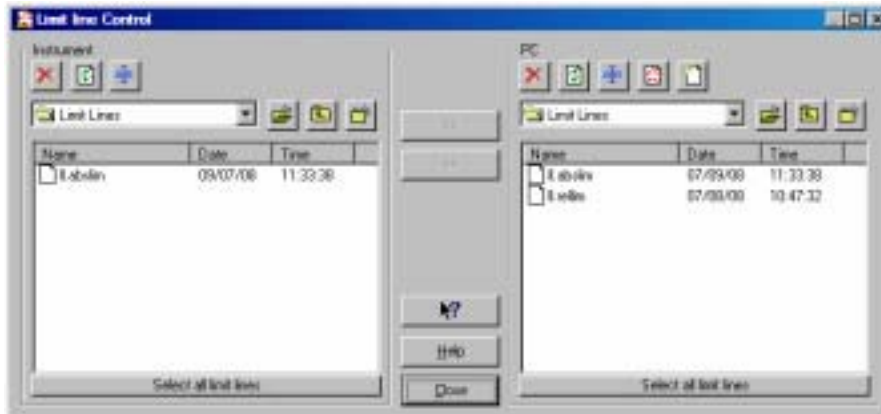
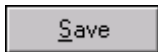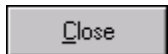## *Editing Limit Lines*

4   Select *ll.abslim* from the **PC** list.

5   [icon]   Click to edit the selected limit line file. As a result, the Limit Line Editor dialog box pops up.

6   Change the limit line characteristics to your preference.

<div align="center">Tip</div>

[View button]   Click to preview the limit line.

7   [Save button]   Click to save the changes. As a result, a dialog box pops up allowing you to browse for a different folder, if you want to.

Notice that the default folder is:

<div align="center">**\ETHView\Limit Lines**</div>

8   [OK button]   Click to save to file.

9   [Close button]   Click to close the Limit Line Editor dialog box.

<div align="center">Tips</div>

[icon]   Click to create a new limit line file.

[icon]   Click to delete the selected limit line file. Press the **Shift** button to select more files.

[Select all limit lines button]   Click to select all limit lines from the list.

[>> button]   Click to transfer the selected limit lines from the instrument to the PC folder.

10   [Close button]   Click to close the Limit Line Control dialog box.

Controlling and editing Limit Tables or Profiles works in the same way as 'Using Limit Lines' or 'Using Profiles' by clicking the limit table buttons [icon] [icon] or profile buttons [icon] [icon] .

Using Transducer Factors

1 [icon] Click to transfer transducer factors to and from the instrument. As a result, the Transducer Control dialog box pops up.
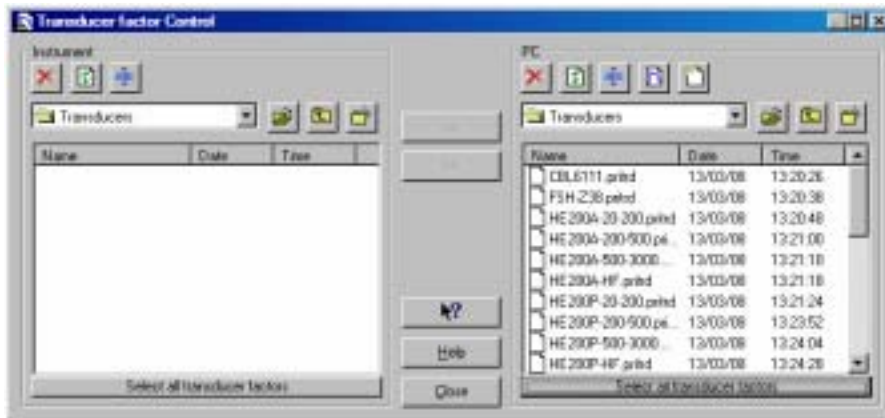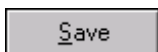

Uploading Transducer Factors to the Instrument

2 Select *CBL6111.pritrd* from the **PC** list, for example. Press the **Ctrl** button to select more files.

3 [<<] Click to transfer the selected transducer factor to the instrument.
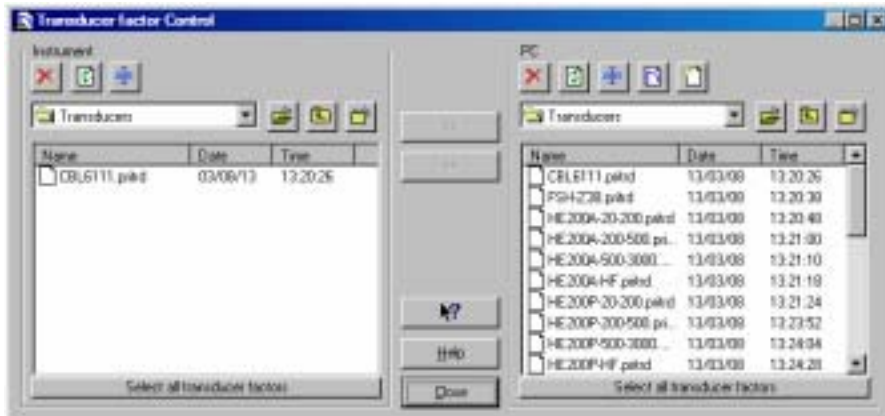
Editing Transducer Factors

4 Select *CBL6111.pritrd* from the **PC** list.

5 [icon] Click to edit the selected transducer factor file. As a result, the Transducer Editor dialog box pops up.

6 Change the transducer factor characteristics to your preference.

Tip
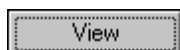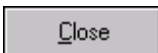
[View] Click to preview the transducer factor.

7 [Save] Click to save the changes. As a result, a dialog box pops up allowing you to browse for a different folder, if you want to.

Notice that the default folder is:

\ETHView\Transducer Factors

8 [OK] Click to save to file.

9 [Close] Click to close the Transducer Editor dialog box.

Tips

[icon] Click to create a new transducer factor file.
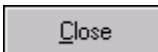
[X icon] Click to delete the selected transducer factor file. Press the **Shift** button to select more files.

[Select all transducer factors] Click to select all transducer factors from the list.

[>>] Click to transfer the selected transducer factors from the instrument to the PC folder.

10 [Close] Click to close the Transducer Control dialog box.

Using Channel Tables

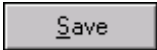**1** [icon] Click to transfer channel tables to and from the instrument. As a result, the Channel Table Control dialog box pops up.
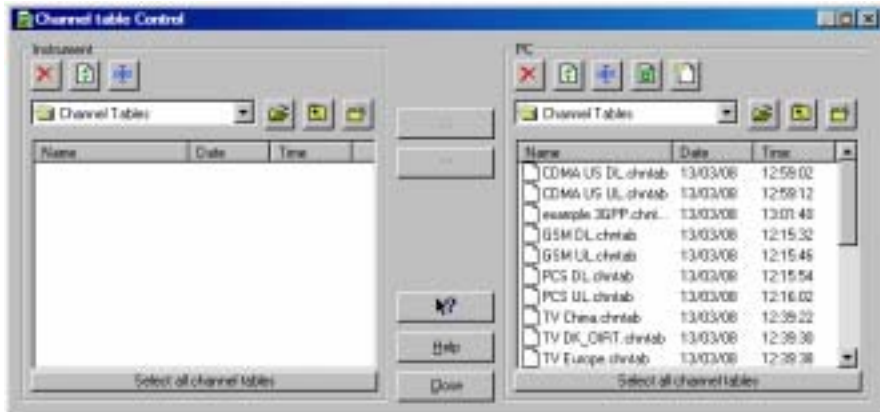
Uploading Channel Tables to the Instrument

2 Select *CDMA US DL.chntab* and *CDMA US UL.chntab* from the **PC** list, for example. Press the **Ctrl** button to select more files.

3 [<< button] Click to transfer the selected channel table to the instrument.
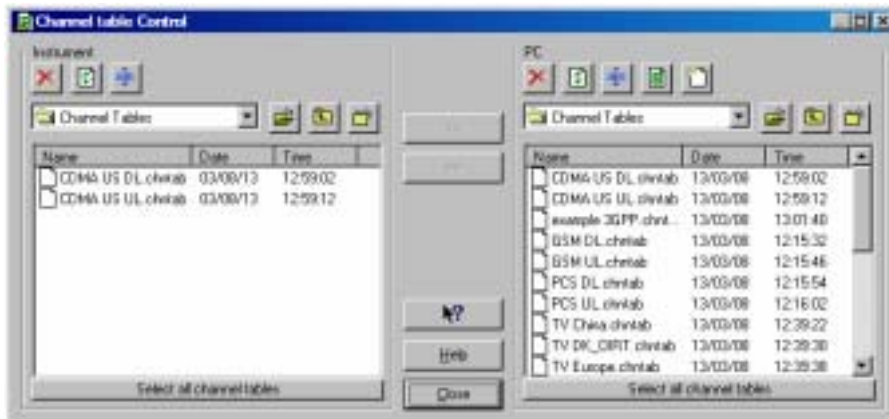
Editing Channel Tables

4   Select ***CDMA US DL.chntab*** from the **PC** list.

5   [icon] Click to edit the selected channel table file. As a result, the Channel Table Editor dialog box pops up.

6   Change the channel table characteristics to your preference.

7   [Save] Click to save the changes. As a result, a dialog box pops up allowing you to browse for a different folder, if you want to.

Notice that the default folder is:

> **\ETHView\Channel Tables**

8   [OK] Click to save to file.

9   [Close] Click to close the Channel Table dialog box.

Tips

[icon]   Click to create a new channel table file.

[icon]   Click to delete the selected channel table file. Press the **Shift** button to select more files.

[Select all channel tables] Click to select all channel tables from the list.

[>>]   Click to transfer the selected channel tables from the instrument to the PC folder.

**10** [Close] Click to close the Channel Table Control dialog box.

Using Standards

1 [icon] Click to transfer measurement standards, e.g. for telecommunication, to and from the instrument. As a result, the Standards Control dialog box pops up.
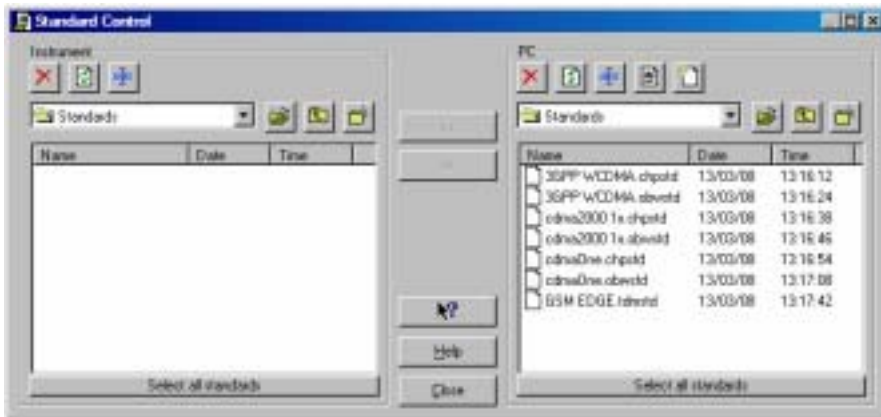
Uploading Standards to the Instrument

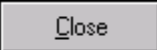**2** Select **3GPP WCDMA.chpstd** and **3GPP WCDMA.obwstd** from the **PC** list, for example. Press the **Ctrl** button to select more files.

3 [<< button] Click to transfer the selected standard to the instrument.
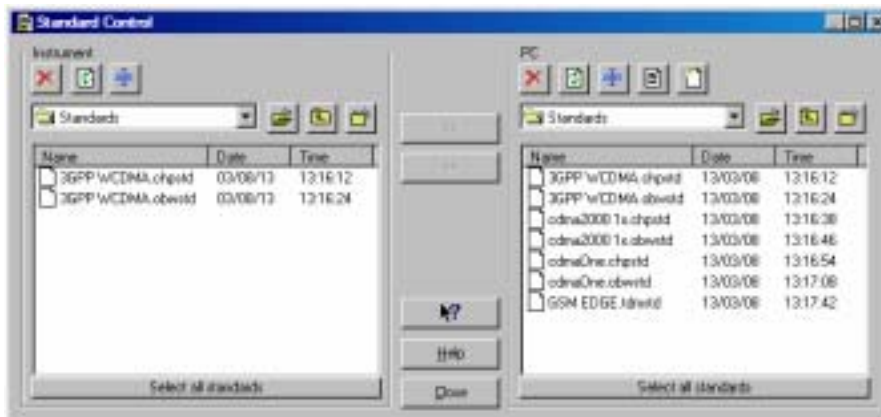
Editing Standards

4   Select *3GPP WCDMA.chpstd* from the **PC** list.

5   [icon]   Click to edit the selected standard file. As a result, the Standards Editor dialog box pops up.

6   Change the standard characteristics to your preference.

7   [Save]   Click to save the changes. As a result, a dialog box pops up allowing you to browse for a different folder, if you want to.

Notice that the default folder is:

\ETHView\Standards

8   [OK]   Click to save to file.

9   [Close]   Click to close the Standards dialog box.

Tips

[icon]   Click to create a new standard file.

[icon]   Click to delete the selected standard file. Press the **Shift** button to select more files.

[Select all standards]   Click to select all standards from the list.

[>>]   Click to transfer the selected standards from the instrument to the PC folder.

**10**   [Close]   Click to close the Standards Control dialog box.

Printing Windows

Printing a Window

1   Click on the window you want to print.

2   🖨   Click to print the window.

## *Printing Multiple Windows on a Page*

The Print Preview function enables you to preview a combination of windows on a page before printing.

3   Click on the window you want to print.

4   🔍   Click to preview the window on the page in the Print Preview window.
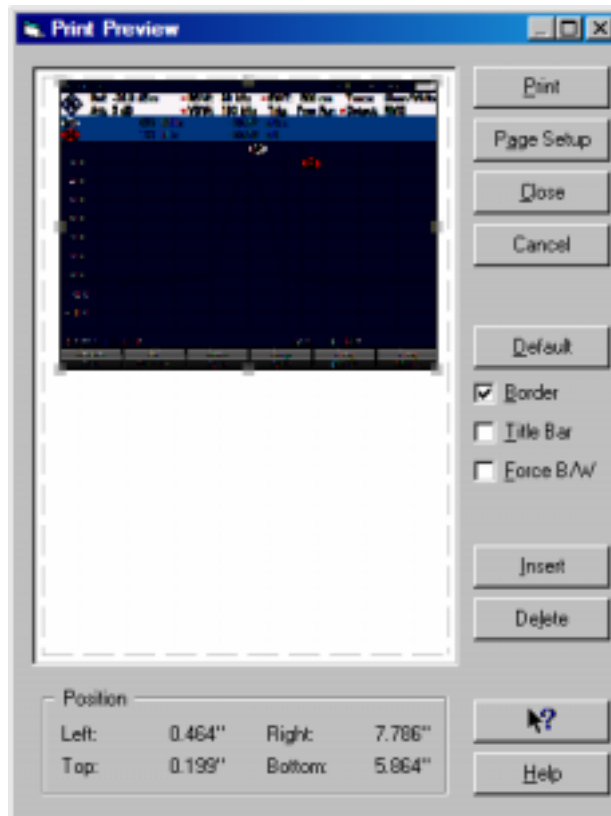
5   Check **Border** to add a border around the active window.

6   Check **Title Bar** to add the title of the active window.

7   Check **Force B/W** to switch from color to black & white (grey scale).

8 | Insert | Click to add more windows on a page. A dialog box appears allowing you to select another window.
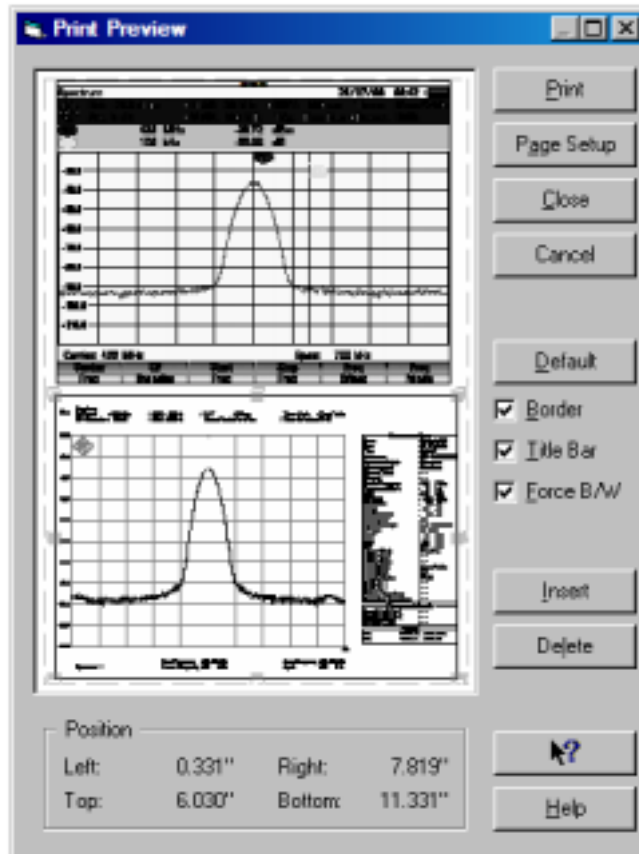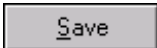

9 | Print | Click to start printing.

To change printer settings, select **File - Print Setup**.

Saving to a File

You can save one window to a file.

1 Click on the window you want to save.

2 📥 Click to save to file. As a result, the File Save dialog box appears.

3 Enter a name for the file in the **File name** box.

4 Enter a file extension (file format) in the **Save as type** box.

The following file formats are supported:

- ♦ **BMP**, **PCX**, **PNG**, **WMF** for saving graphical screen or sweep window data
- ♦ **CSV**, **TXT** for saving numerical sweep data (ASCII)
- ♦ **SWP**, **SET** for saving to Rohde & Schwarz data formats:
  - ○ **SWP** for sweep data
  - ○ **SET** for measurement datasets
- ♦ **CBLMOD** for saving cable model data
- ♦ **CHNTAB** for saving channel table data
- ♦ **ABSLIM**, **RELLIM** for saving absolute, relative limit line data
- ♦ **OBWSTD**, **CHPSTD**, **TDMSTD**, **CTNSTD**, **DVBSTD** for saving occupied bandwidth, channel power, TDMA power, carrier to noise, DVB T/H Receiver standards data
- ♦ **PRITRD**, **SECTRD**, **ISOTRD** for saving primary, secondary, isotropic antenna transducer factor data
- ♦ **DVBLIM, DVBSTD** for saving limit table or standard DVB data

5 | Save | Click to save to file.

For more information on file formats and other file formats (instrument data oriented, for example for cable models and limit lines), select **Index** - **File Formats** from the **Help** menu.

6 📂 Click to open from file. As a result, the File Open dialog box appears.

Index

A

B

C

D

E

F

G

H

I

L

M

O

P

R

S

T

U

V

W

Z